

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
1 July 2004 (01.07.2004)

PCT

(10) International Publication Number  
**WO 2004/054398 A1**

(51) International Patent Classification:  
A43D 1/02

A43B 7/28,

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(11) International Application Number:

PCT/CA2002/001927

(22) International Filing Date:

16 December 2002 (16.12.2002)

(25) Filing Language:

English

(26) Publication Language:

English

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(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Declarations under Rule 4.17:**

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC,

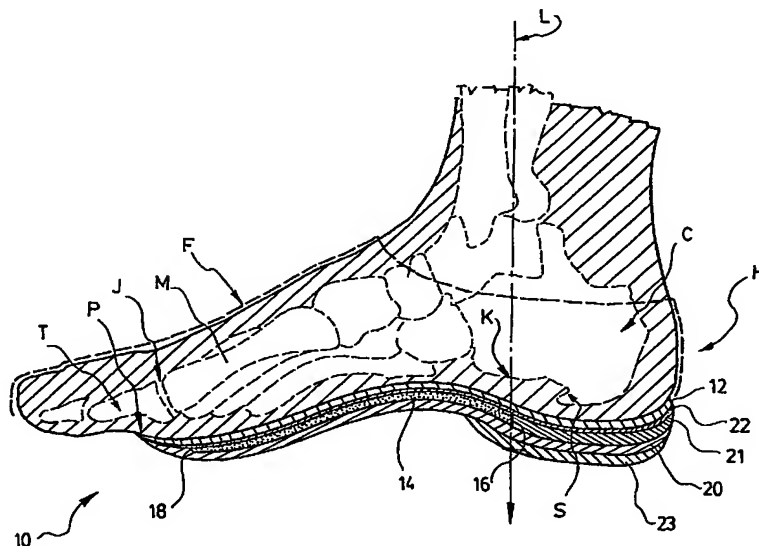
[Continued on next page]

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(54) Title: BIOMECHANICAL CUSTOM MADE FOOT ORTHOSIS AND METHOD FOR MAKING THE SAME



(57) Abstract: A biomechanical custom made foot orthosis (10) and a method for making the same. The orthosis (10) has a thermoformed flexible top layer (12) made of a first moldable synthetic rubber material, and a thermoformed flexible reinforcement core layer (14) made of a moldable core material that is molded onto the top layer, (12). The core layer (14) has a posterior end (16) aligned with a mid anterior plantar prominence (K) of a calcaneus bone (C), and an anterior end (18) aligned near metatarsal-phalangeal joints (J) of the foot. The orthosis (10) also has a thermoformed flexible bottom layer (20) made of a second moldable synthetic rubber material that is molded onto the top layer (12) and the core layer (14). The core layer (14) is more rigid than the top and bottom layers (12, 20). The orthosis (10) corrects anatomic biomechanical deficiencies of the foot and ensuing body deficiencies.



SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

— of inventorship (Rule 4.17(iv)) for US only

**Published:**

— with international search report

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# INTERNATIONAL SEARCH REPORT

International Application No

PCT/02/01927

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 A43B7/28 A43D1/02

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A43B A43D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2002/158358 A1 (FRANZENE BRIAN J) 31 October 2002 (2002-10-31) the whole document	1, 14
A	GB 565 070 A (WILLIAM MATHIAS SCHOLL) 25 October 1944 (1944-10-25) the whole document	1, 14
A	US 4 868 945 A (DEBETTIGNIES JEAN) 26 September 1989 (1989-09-26) cited in the application the whole document	1, 14
A	US 4 756 096 A (MEYER GRANT C) 12 July 1988 (1988-07-12) cited in the application the whole document	1, 14

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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

31 July 2003

Date of mailing of the international search report

08/08/2003

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# INTERNATIONAL SEARCH REPORT

International Application No

PCT/02/01927

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>US 6 042 759 A (MARSHALL SCOTT)  28 March 2000 (2000-03-28)  the whole document</p> <p>-----</p>	1, 14

Information on patent family members

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